

IN THE ABSTRACT

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substitute therefor the enclosed New Abstract.

NEW ABSTRACT

An inductive transmission system for inductive transmission of power and full duplex data signals between first and second devices. The transmission system includes a bi-directional inductive channel between the two devices; a transmitter for transmitting a power signal at a first frequency from the first device to the second device over the inductive channel; a first modulating device for modulating a first data signal at a first modulation frequency; and a second modulating device for modulating a second data signal at a second modulation frequency. Further transmitters transmit the modulated first data signals from the first device to the second device over the inductive channel, and transmits the modulated second data signals from the second device to the first device over the inductive channel. The first modulation frequency and the second modulation frequency are at least a factor two apart.